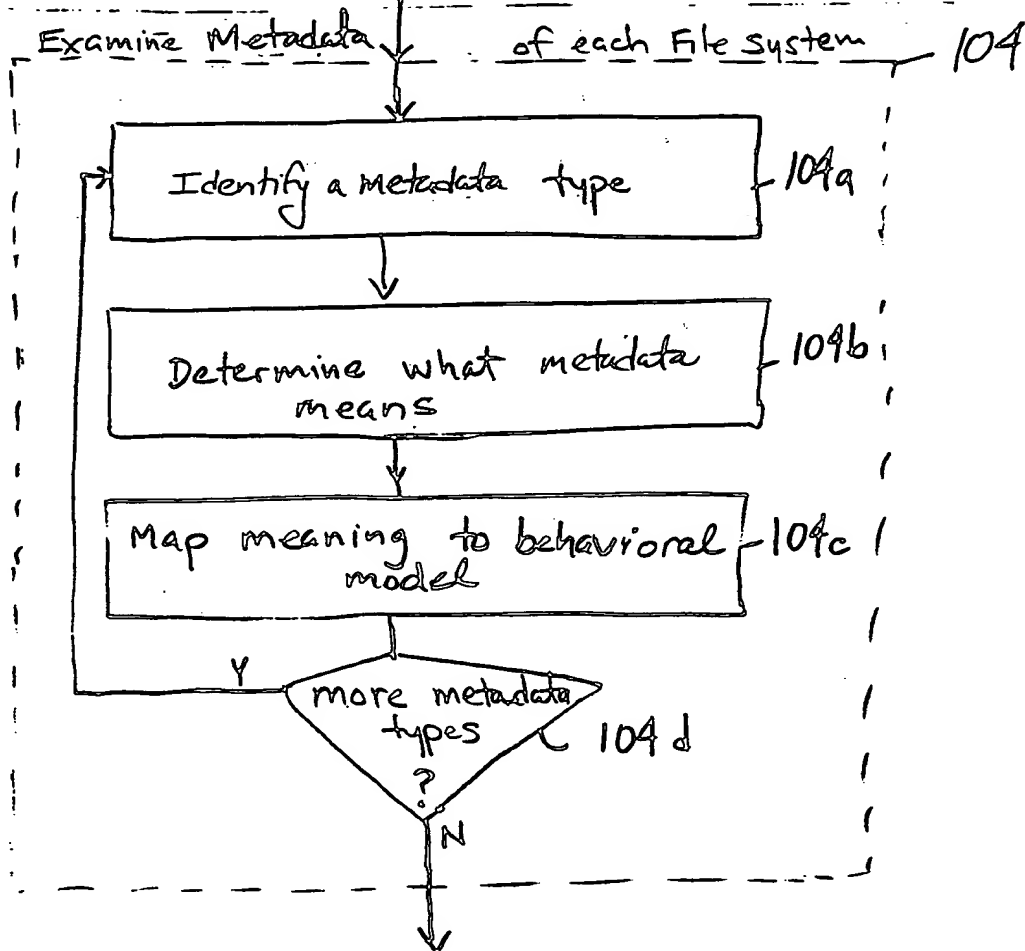


Start

Provide a set of
File Systems



Abstract File System metadata
meanings and behavior

Generate a Directory Class and
a File Class defining a
Flat File System

Done

FIG. 1

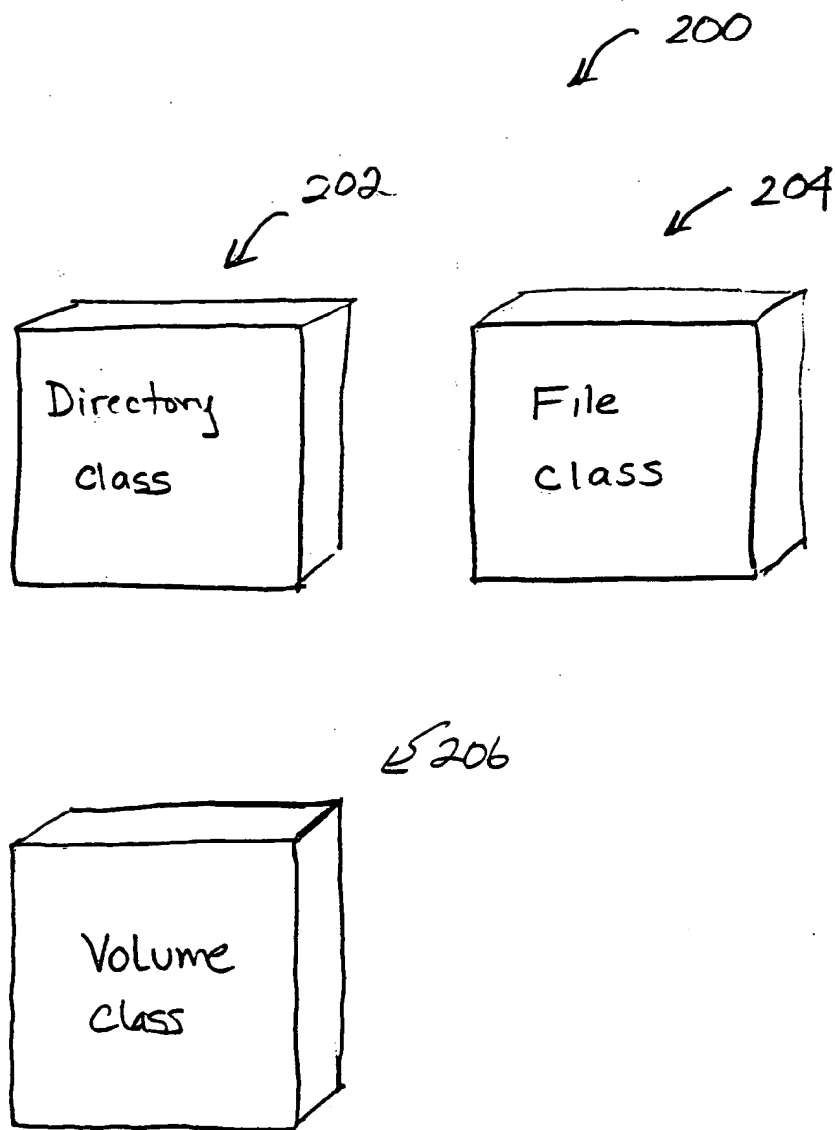


FIG. 2A

↖ 202

Directory Class

202a ✓

ATTRIBUTES:

Type
Actions Enabled
Permissions
Owner
Group ID
Local ID
Local Parent ID
MAESI Bit
Mirror Bit
Mirror Target ID
Multicast IPV6 Address
Multicast mirror group
Frequency of Mirror
Time StampS
Etc.

202b ✓

OPERATIONS:

Create ();
Delete ();
Move ();
Change owner ();
Change group ();
Link ();
Unlink ();
Change permissions ();

FIG. 2B

204

File Class

204a

ATTRIBUTES:

Type
Actions Enabled
Permissions
Owner
Group ID
Local ID
Local Parent ID
MAESI Bit
Mirror Bit
Mirror Target ID
Multicast IPV6 Address
Multicast Mirror Group
Frequency of Mirror
Time Stamps
Etc.

204b

OPERATIONS:

Open ();
Edit ();
Append ();
Read ();
Write ();
Link ();
Concatenate () or Open, Read, redirect, close ();
Create ();
Delete ();
Move ();
Change owner ();
Change group ();
Link ();
Unlink ();
Change permissions ();

FIG 2C

FIG. 3A

300

DIR.A	F_{A1}	F_{A2}	F_{A3}	DIR.B	F_{B1}	f_{B2}	DIR.C	F_{C1}	F_{C2}	F_{C3}	F_{C4}	DIR.D	F_{D1}	F_{D2}
-------	----------	----------	----------	-------	----------	----------	-------	----------	----------	----------	----------	-------	----------	----------

FIG. 3A

350

DIR A	F_{A1}	F_{A2}	F_{A3}	DIR B	F_{B1}	f_{B2}	DIR C	F_{C1}	F_{C2}	F_{C3}	F_{C4}	DIR D	F_{D1}	f_{D2}
(IPID)														
Vol. Z	DIR A		DIR A		DIR B		DIR A		DIR C		DIR C		DIR D	
(CI)	N/A		Pointer B		N/A		Pointer C		N/A		Pointer D		N/A	

FIG. 3B

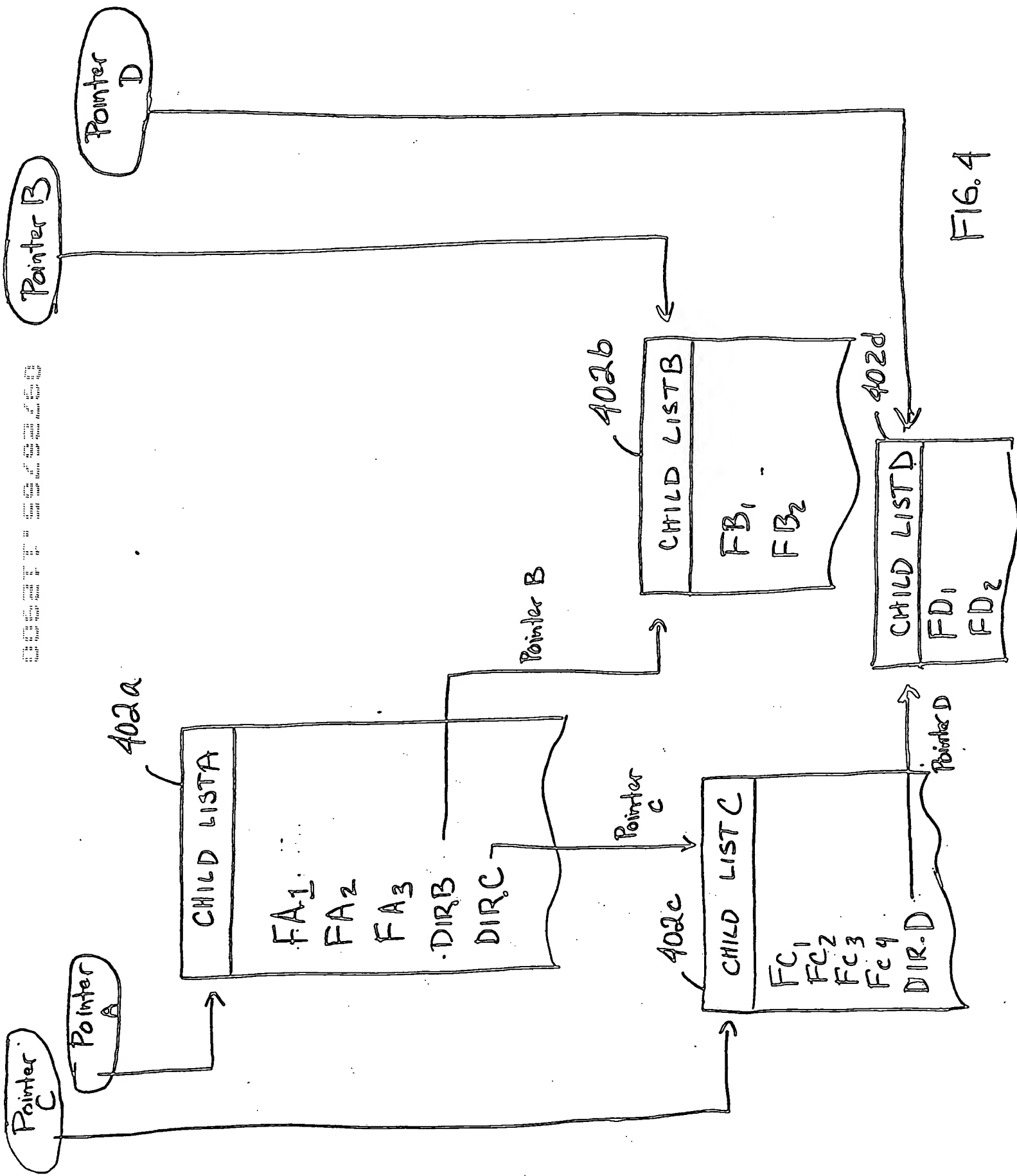


FIG. 4

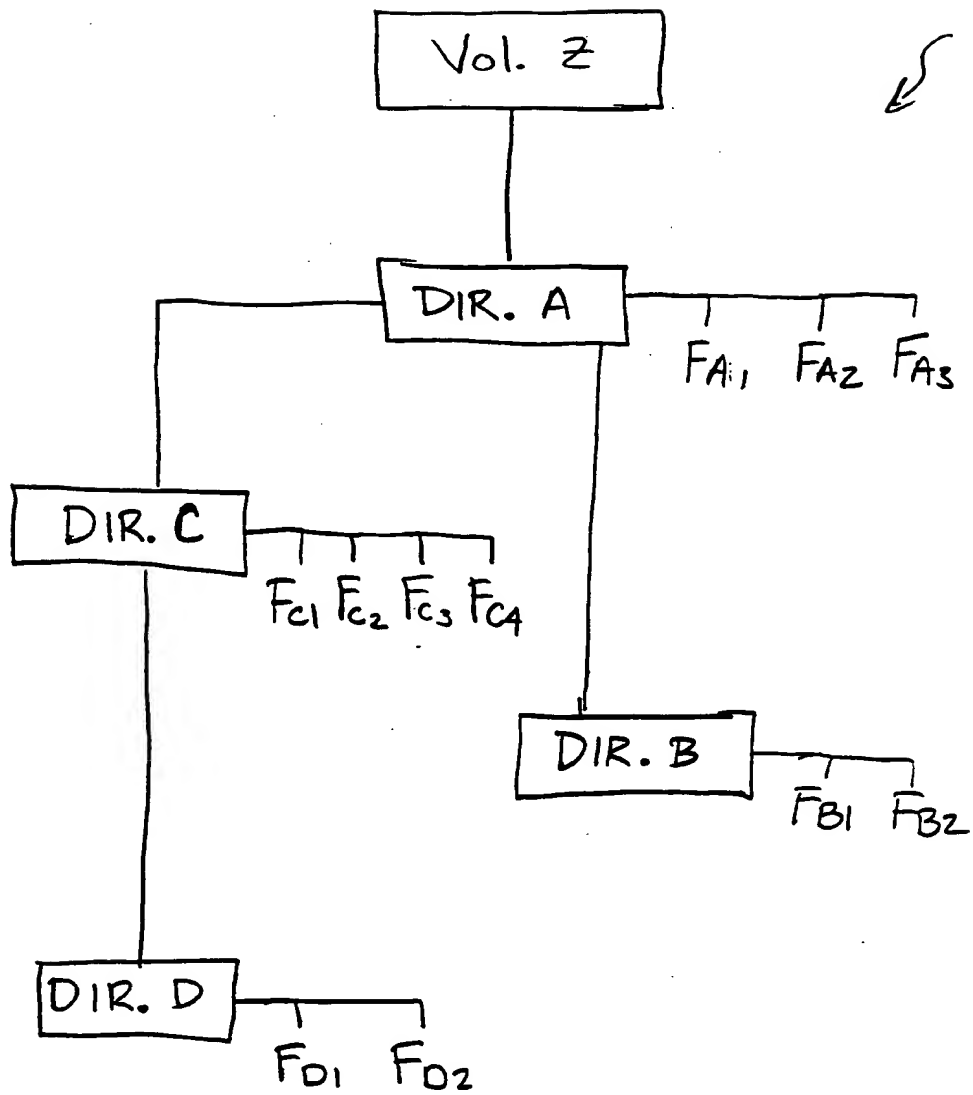
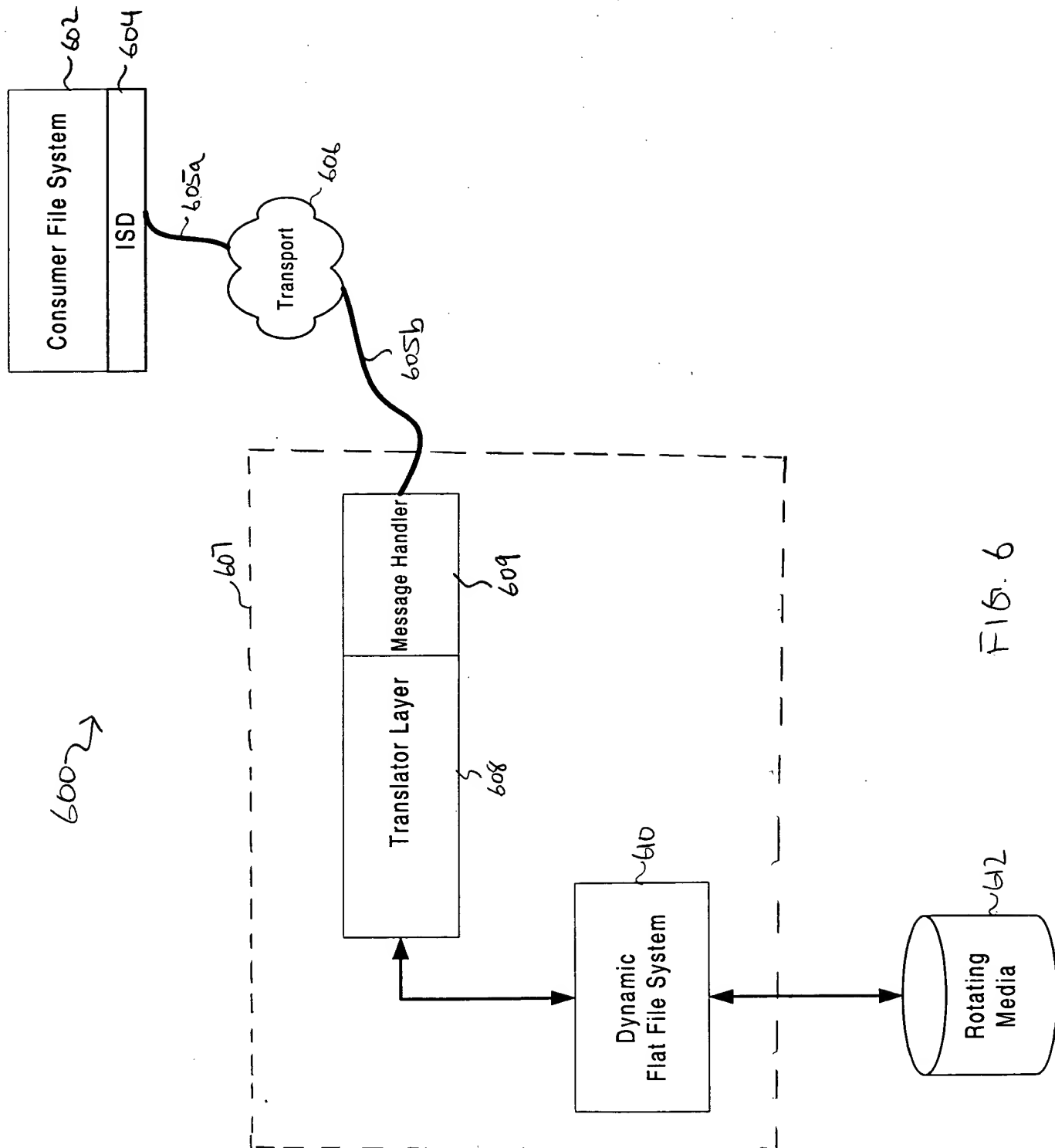


FIG. 5



2700

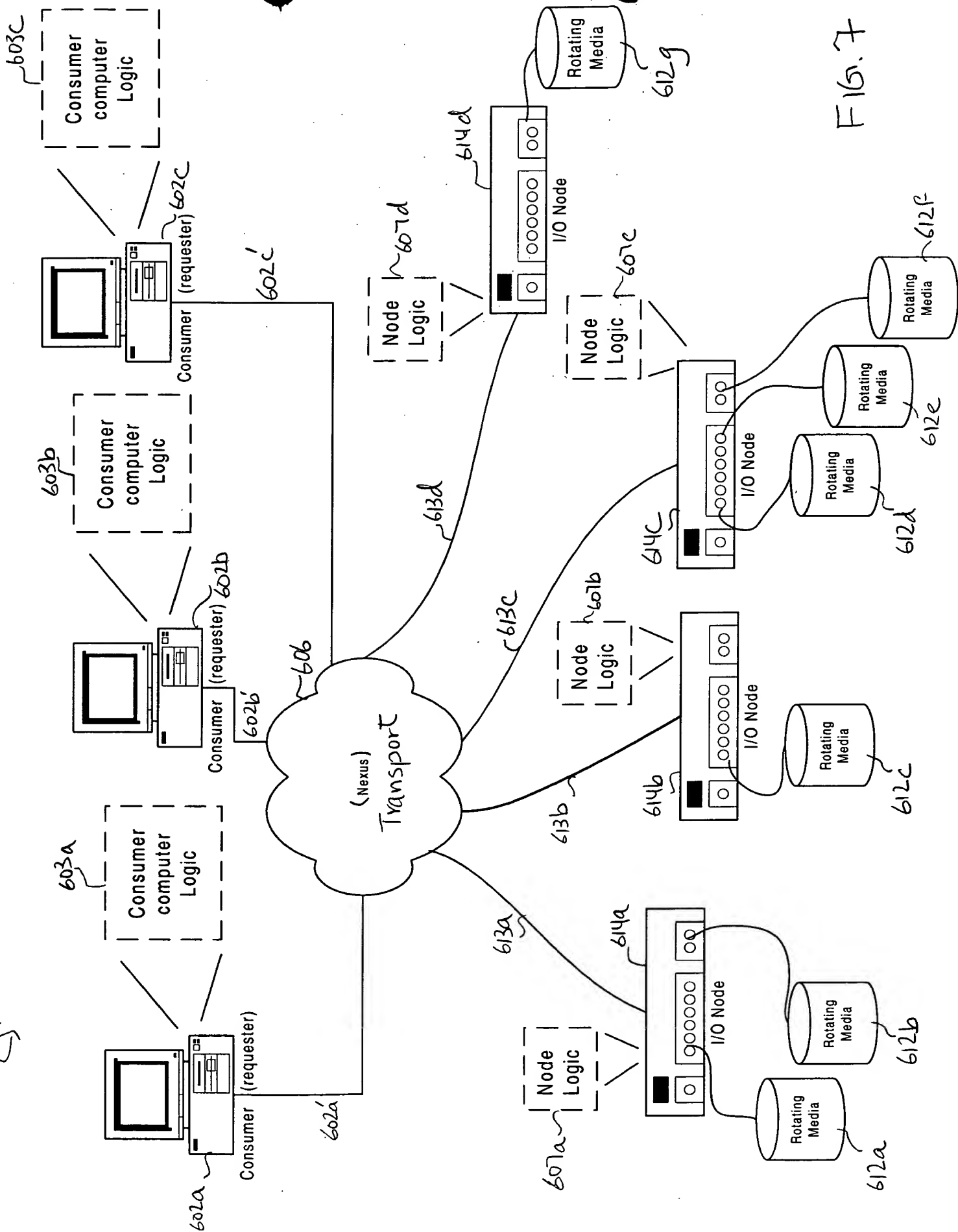


FIG. 7

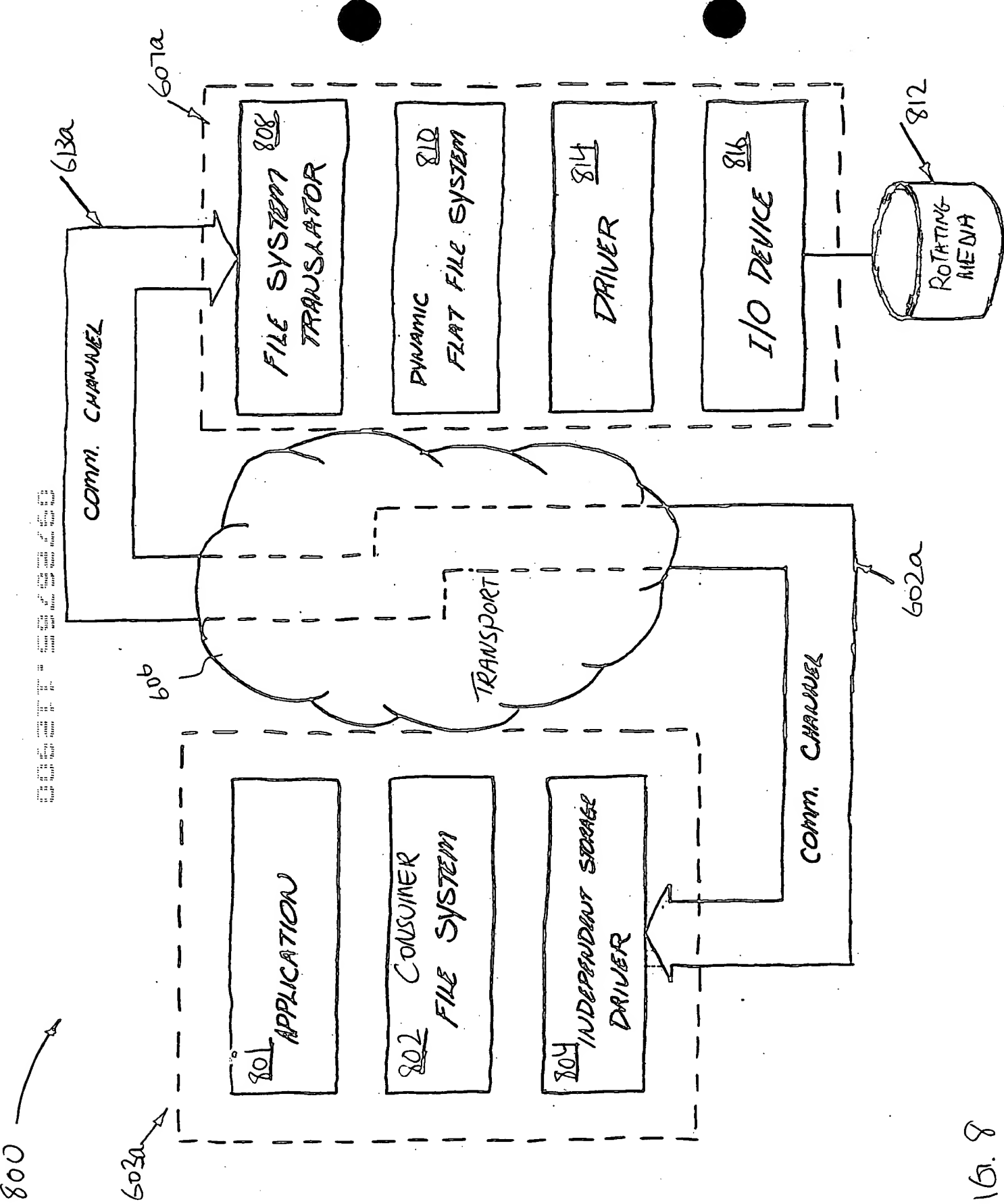


FIG. 8

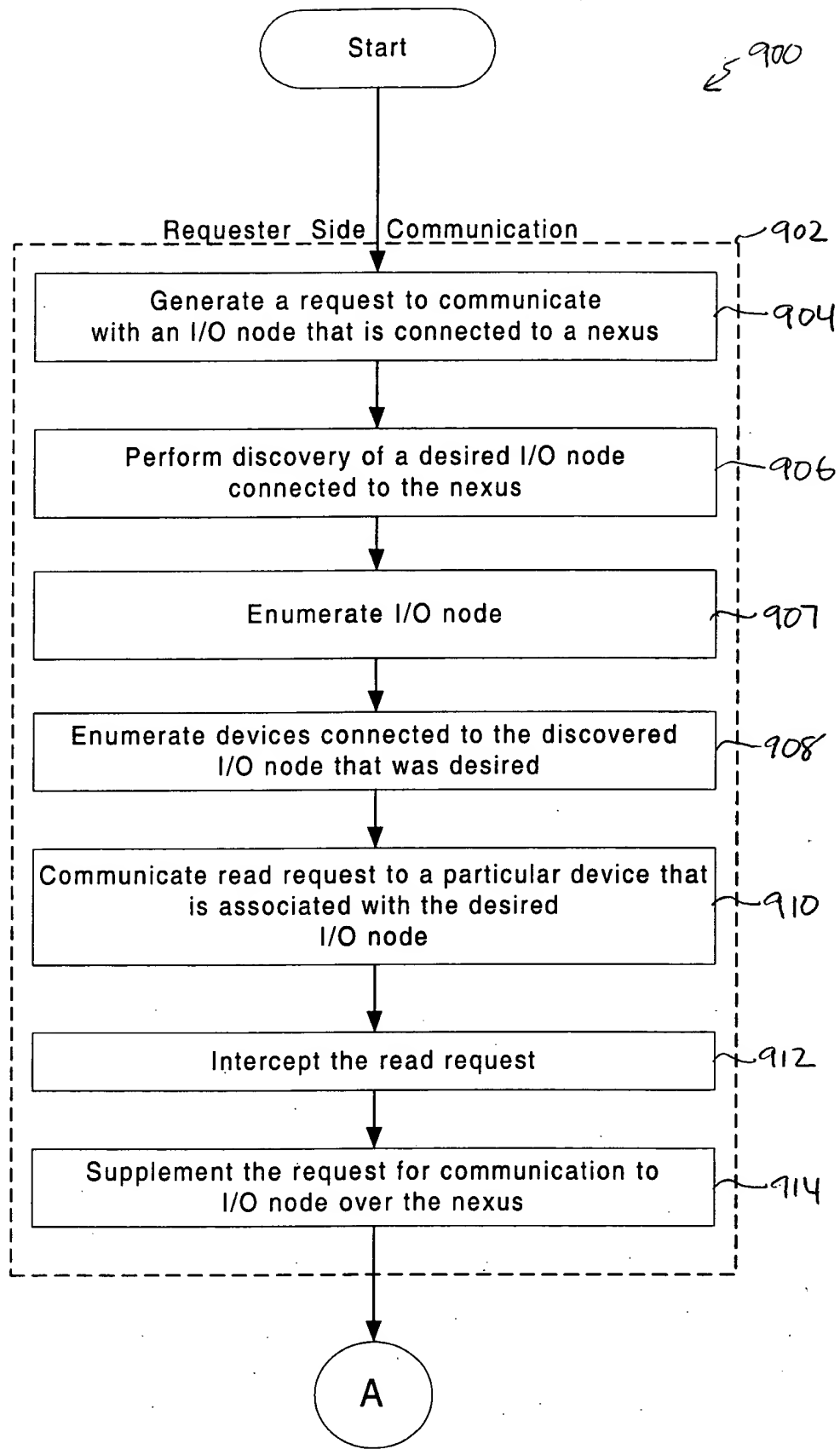


FIG. 9A

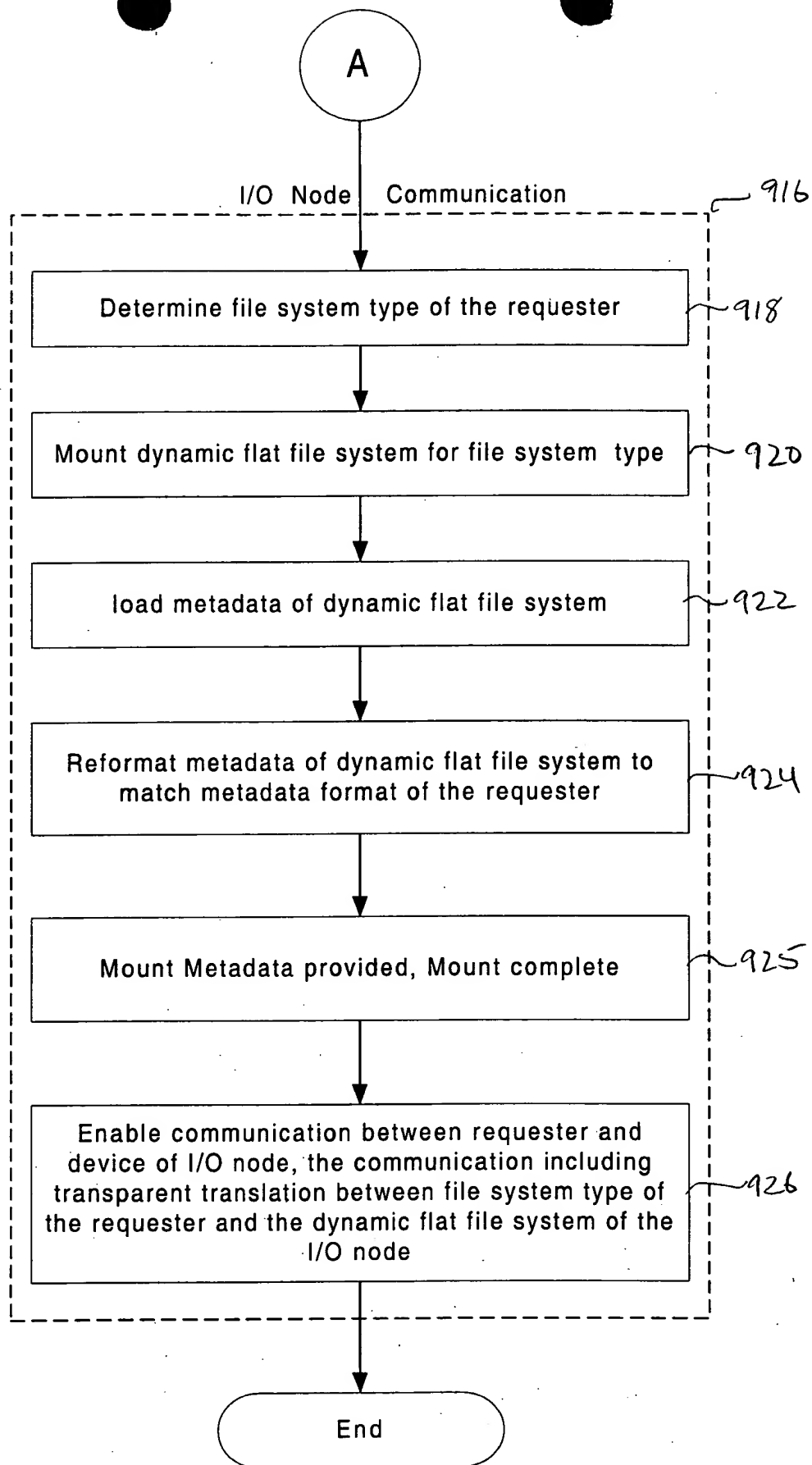


FIG. 913